

# Isco 3710C Compact Portable Composite Sampler

## *Ease of use in single-bottle sampling*

The 3710C Compact Sampler is ideal for general purpose or toxic pollutant composite sampling. It collects composite samples— based on time or flow intervals— in a 2.5-gallon glass or poly bottle. Up to 24 sampling stop and resume times can be preset for unattended, automatic sampling.

## *Accurate, repeatable sample delivery*

The exclusive LD-90 Liquid Presence Detector and Isco pump revolution counting system deliver accurate, repeatable sample volumes time after time. This precision volume delivery system automatically compensates for changes in head height, and the non-contacting LD-90 is unaffected by conductivity, viscosity, temperature, or effluent composition. The system also provides a preconditioning rinse of the suction line to limit sample contamination.



*Ease of transport and suitability for use in small diameter manholes or other limited-space applications are hallmarks of this remarkably compact sampler.*



## *User-friendly programming for all applications*

Our 3710C Compact Sampler offers you basic and extended programming modes. This provides you with the versatility to easily program your sampler for:

- ◆ Uniform time intervals
- ◆ Non-uniform time intervals
- ◆ Flow-paced sampling with or without time delay

Setup and programming is a snap. Simply choose the options you need from the selections displayed on the two-line, backlit LCD.

## *Superior sample preservation*

The sampler's 15 lb ice capacity and thermal resistance of R-11 assure effective sample cooling. A thick, one-inch foam insulated base keeps the unit more rigid, and less affected by ambient temperatures.

## Specifications

3710c Sampler	
Height:	27.75 in (70.5 cm)
Diameter:	17.75 in (45.1 cm)
Weight: <i>(Dry, less battery)</i>	32 lbs (14.5 kg)
Bottle Types:	2.5-gallon, polypropylene or glass
Ice capacity:	12 to 15 lbs (5.4 to 6.8 kg)
Sample cooling:	39°F (4°C) (w/glass bottle, maximum ice capacity, and 75°F ambient temperature)
Power requirements:	12 VDC (Supplied by external battery, or AC power converter in dual-power version.)
Pump/Tubing	
Intake purge:	Adjustable air purge before and after each sample
Tubing life indicator	Provides a warning to change pump tubing
Intake suction tubing	
Length	3 to 99 ft (1 to 30 m)
Material	Vinyl or PTFE
Inside dimension	3/8" (9 mm) or 1/4" (6 mm)
Pump tubing life:	500,000 pump counts
Maximum lift:	26 feet (7.9 m)
Typical repeatability	±10 ml
Typical line velocity at head height: of	
3 ft. (0.9 m)	2.9 ft/s (0.88 m/s)
10 ft. (3.1 m)	2.5 ft/s (0.76 m/s)
15 ft. (4.6 m)	1.9 ft/s (0.58 m/s)
Liquid presence detector:	Non-wetted, non-conductive sensor automatically compensates for changes in head heights

Controller	
Weight:	11 lbs (5.9 kg)
Size: <i>(H x W x D)</i>	10 x 12.5 x 10 in (26 x 32 x 25 cm)
Operational temperature:	32° to 120°F (0° to 49°C)
Enclosure rating:	NEMA 4X, 6 (IP67)
Program memory:	Non-volatile ROM
Flow meter signal input:	5 to 15 volt DC pulse or 25 millisecond isolated contact closure for flow-paced sampling.
Number of samples to shutoff:	Up to 2,000 samples. <i>(Fail-safe float shutoff)</i>
Clock Accuracy:	1 minute per month, typical, for real-time clock
Software	
Sample frequency selection:	1 minute to 99 hrs 59 minutes, in 1-minute increments. 1 to 9,999 flow pulses
Sampling modes:	Time or flow, event. (Flow mode is controlled by external flow meter pulses.)
Programmable sample volumes:	10 to 9,990 ml, in 1.0 ml increments
Sample retries	If no sample is detected, up to three attempts, user selectable
Rinse cycles	Automatic rinsing of suction line up to three rinses for each sample collection
Program storage:	3 sampling programs
Sampling Stop/Resume	Up to 24 real time/date sample stop/resume commands
Controller diagnostics:	Tests for RAM, ROM, pump, and distributor

## Ordering Information

**Note:** Bottle configuration, suction line, and strainer must be ordered separately. 12 VDC operation requires suitable external battery.

Description	Part Number
3710C Compact Portable Composite Sampler (only)	68-3710-021
One 2.5-gallon (9.5L) round poly bottle (with cap and 2 pump tubes)	68-3710-022
One 2.5-gallon (9.5L) round glass bottle (with cap and 2 pump tubes)	68-3710-020
100 two-gallon ProPak bags (with holder, cap, and 2 pump tubes)	68-3710-023



Water is life. Protect it.

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